

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-177608

(43)Date of publication of application : 12.07.1996

(51)Int.Cl.

F02D 45/00
B60R 16/02
G01M 17/007

(21)Application number : 06-322760

(71)Applicant : NIPPONDENSO CO LTD

(22)Date of filing : 26.12.1994

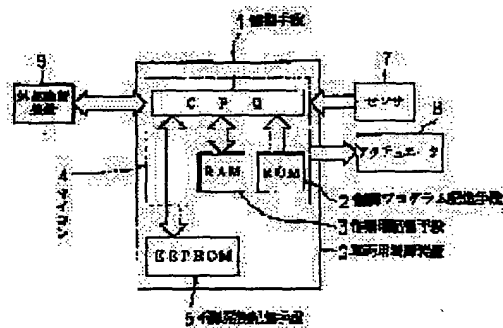
(72)Inventor : SAWAMOTO TETSUO

(54) CONTROL SYSTEM FOR VEHICLE

(57)Abstract:

PURPOSE: To read out a program or a datum which is low in the frequency of use among the stored contents of a serial communication system nonvolatile memory means when a special condition is satisfied, and to transfer it to a work memory means.

CONSTITUTION: The memory area of a serial communication system EEPROM 5 arranged in ECU 6 for executing the engine control of an automobile is separately composed of the first area where a failure diagnosis program and judged value data are stored, in which the failure diagnosis program is usually executed after the start of an engine and the second area where a data outputting program is stored, which is used only in the case of an external diagnosis device 9 connected to ECU 6. CPU 1 first transfers the stored contents of the first area to RAM 3, and the stored contents of the second area are read out when the external diagnosis device 9 is connected to ECU 6 and transferred to RAM 3.



LEGAL STATUS

[Date of request for examination]

16.04.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

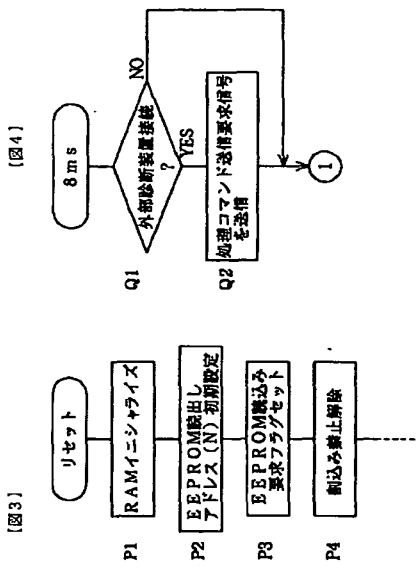
[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

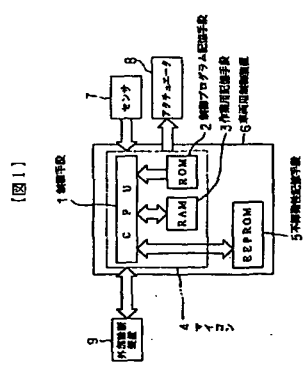
[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office



【符号の説明】

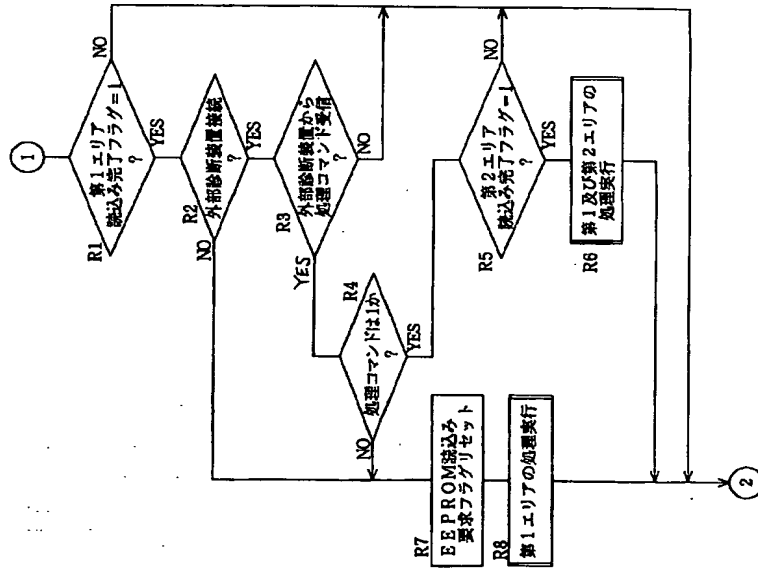
1はCPU（制御手段）、2及び10はROM（制御プログラム記憶手段）、3はRAM（作業用記憶手段）、4は外部診断装置、5は外部診断装置接続手段、6及び11はEEPROM（不揮発性記憶手段）、7及び12はエンジン制御ECU（車両用制御装置）、8はプログラム記憶手段、9はRAM（作業用記憶手段）、* 外部診断装置を示す。



(図2)

第1エリア	
水温センサオープン、ショート判定値	
吸気温度センサオープン、ショート判定値	
第2エリア	
ISCバルブ異常判定用データ	
水温センサ診断データ出力用プログラム	
吸気温度センサ診断データ出力用プログラム	
ISCバルブ診断データ出力用プログラム	

【図5】



【図6】

